

Abstract

Method of reproducing audio sound with ultrasonic loudspeakers

The invention concerns a method of reproducing audio sound with ultrasonic loudspeakers and a design of the ultrasonic loudspeakers and use thereof.

A method and apparatus for reproducing audio sound by means of an ultrasound-producing device, wherein the audio signal to be reproduced is linked by side band amplitude modulation to a carrier signal in the ultrasonic frequency range, wherein there are provided means for subjecting the modulated ultrasonic signal to dynamic error compensation and the compensated ultrasonic signal is possibly subjected to frequency characteristic linearisation and is then passed to an ultrasonic transducer (loudspeaker), wherein there are provided means for reducing the amplitude of the ultrasonic carrier signal (carrier reduction).

(Figure 1)